Docket No.

251023US2S/phh

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Yoshihisa IWATA, et al.

SERIAL NO:

10/807,454

GAU:

FILED:

March 24, 2004

EXAMINER:

FOR:

SEMICONDUCTOR MEMORY DEVICE HAVING MEMORY CELLS INCLUDING FERROMAGNETIC FILMS

AND CONTROL METHOD THEREOF

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- □ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number <u>15-0030</u>. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

Marvin J. Spivak

Registration No. 24,913

Joseph A. Scafetta, Jr.

Registration No. 26, 803

Customer Number

22850

Tel. (703) 413-3000 Fax. (703) 413-2220 (OSMMN 05/03)

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THEREOF

STATEMENT OF RELEVANCY

All of the references listed on Form PTO-1449 are discussed in the specification.

Reference AO (JP 8-306014) on Form PTO-1449:

This reference shows that recoding is executed by the synthesized magnetic fields from the sense line and the word line. Reading is executed by the magneto-resistive effect by the synthesized magnetic fields from the word line and the passing current from the sense line to the memory cell element.

Reference AP (WO 00/10172) on Form PTO-1449:

This reference shows that in a storage cell array, a first and second line are provided, on whose crossing point a storage element with magnetoresistive effect is disposed. A yoke is provided, surrounding one of the lines and containing magnetizable material with a permeability of at least 10.

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				APPLICANT						
LIST OF	REFE	RENCES CITED BY AI	PPLICANT	Yoshihisa IWATA, et al.						
				FILING DATE	GROUP					
				March 24, 2004						
				U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS		ING DATE	-	
	AA	6,005,800	12/21/1999	R. H. KOCH, et al.						
	AB	5,940,319	08/17/1999	M. DURLAM, et al.						
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	AP	WO 00/10172	02/24/2000	WIPO (with English Abstract)				X		
	AQ									
	AR									
	•	OTHER 6	REFERENCES (Including Author, Title, Date, Pertine	ent Pages, e	tc.)				
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	AS	R. SCHEUERLEIN, et al., 2000 IEEE International Solid-State Circuits Conference, Session 7, TD: Emerging Memory & Device Technologies, paper TA 7.2, pages 128-129, "A 10NS READ AND WRITE NON-VOLATILE MEMORY ARRAY USING A MAGNETIC TUNNEL JUNCTION AND FET SWITCH IN EACH CELL", February 2000								
	АТ	K. INOMATA, et al., BETWEEN A SOFT	Jpn. J. Appl. Ph FERROMAGNE	ys., vol. 36, part 2, no. 10B, pages L 13 TIC LAYER AND HARD MAGNETIC N	880- L 1383, IANOSIZE F	"SPIN-DEF PARTICLES	PENDEN 6", Octob	T TUNNEI er 15, 199	LING 7	
	M. SATO, et al., Jpn. J. Appl. Phys., vol. 36, part 2, no. 2B, pages L 200- L 201, "SPIN-VALVE-LIKE PROPERTIES AU FERROMAGNETIC TUNNEL JUNCTIONS", February 15, 1997								ıF	
	AV			on Magnetics, vol. 33, no. 5, pages 355 AGNETIC TUNNEL JUNCTIONS", Sep			-LIKE PF	ROPERTIÉ	S AND	
			· ·		Add	itional Refe	erences s	sheet(s) att	ached	
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				t citation is in conformance with MPEP		ne through	citation	if not in		